	Document ID	Issue Date	Pages	Title	Current OR
1	US 20050111347 A1	20050526	20	Transmitting device and receiving device	370/206
2	US 20050107053 A1	20050519	12	Reception of multicarrier spread-spectrum signals	455/234.1
3	US 20050105649 A1	20050519	11	Constitution of a receiver in an ultra-wideband wireless communications system	375/324
4	US 20050096062 A1	20050505	22	Restrictive reuse for a wireless communication system	455/450
5	US 20050096061 A1	20050505	20	Layered reuse for a wireless communication system	455/450
6	US 20050083888 A1	20050421	10	Forward link handoff for wireless communication systems with OFDM forward link and CDMA reverse link	370/332
7	US 20050058228 A1	20050317	15	Staggered AGC with digitally controlled VGA	375/345
8	US 20050058227 A1	20050317	12	Method for amplitude insensitive packet detection	375/329
9	US 20050058193 A1	20050317	14	Frequency domain equalizer for wireless communications system	375/232
10	US 20050053035 A1	20050310	44	Method and apparatus for providing uplink packet data service on uplink dedicated channels in an asynchronous wideband code division multiple access communication system	370/331
11	US 20050052991 A1	20050310	28	Incremental redundancy transmission in a MIMO communication system	370/216
12	US 20050047522 A1	20050303	52	Method and apparatus for rearranging codeword sequence in a communication system	375/298
13	US 20050026565 A1	20050203	30	Pilotless, wireless, telecommunications apparatus, systems and methods having equalization	455/67.11
14	US 20050025257 A1	20050203	31	Pilotless, wireless, telecommunications apparatus, systems and methods	375/316
15	US 20050018789 A1	20050127	21	Fast space-time decoding using soft demapping with table look-up	375/316

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2	375/326	De Courville, Marc et al.
3		Takizawa, Kenichi et al.
4	455/63.1; 455/67.11	Ji, Tingfang et al.
5		Ji, Tingfang et al.
6	370/335; 370/491	Smee, John E. et al.
7		Birkett, Neil
8	375/343	Birkett, Neil et al.
9	375/260; 375/350	Saed, Aryan
10	370/320; 370/335; 370/342; 370/441; 370/464; 370/537	Kwak, Yong-Jun et al.
11	370/329	Kadous, Tamer
12		Kim, Min-Goo et al.
13		Goldstein, Yuri et al.
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16	US 20050009476 A1	20050113	35	Virtual MIMO transmitters, receivers, systems and methods	455/101
17	US 20050008097 A1	20050113	16	Coded modulation scheme for a wirelesss communication system and methods thereof	375/302
18	US 20040266374 A1	20041230	13	Method of and device for antennae diversity switching	455/134
19	US 20040264590 A1	20041230	13	System, method and computer program product for demodulating quadrature amplitude modulated signals	375/261
20	US 20040264589 A1	20041230	15	System, method and computer program product for demodulating quadrature amplitude modulated signals based upon a speed of a receiver	375/261
21	US 20040258177 A1	20041223	79	Multi-dimensional space Gray code maps for multi-dimensional phase modulation as applied to LDPC (Low Density Parity Check) coded modulation	375/308
22	US 20040240590 A1	20041202	165	Decoder design adaptable to decode coded signals using min* or max* processing	375/340
23	US 20040229615 A1	20041118	20	Soft handoff with interference cancellation in a wireless frequency hopping communication system	455/436
24	US 20040228423 A1	20041118	10	Method and device for efficient decoding of symbols transmitted in a MIMO telecommunication system	375/341
25	US 20040228267 A1	20041118	23	Fast frequency hopping with a code division multiplexed pilot in an OFDMA system	370/203
26	US 20040218684 A1	20041104	11	Method for modifying a bit sequence in an ARQ retransmission, receiver and transmitter therefor	375/261
27	US 20040204175 A1	20041014	24	Device for selective power management for a hand held host	455/572

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	Document ID	Issue Date	Pages	Title	Current OR
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29	US 20040203465 A1	20041014	19	Mode adaptation in wireless systems	455/67.13
30	US 20040202138 A1	20041014	21	Multicarrier DS/CDMA system using a turbo code with nonuniform repetition coding	370/335
31	US 20040192308 A1	20040930	25	System and method for retransmitting uplink data from a mobile terminal in a soft handover region in an asynchronous CDMA mobile communication system servicing an enhanced uplink dedicated transport channel	455/436
32	US 20040190641 A1	20040930	33	Method and system for modulating and demodulating signals in ultra-wide band (UWB) communication systems	375/261
33	US 20040190552 A1	20040930	43	Apparatus and method for controlling an output buffer in a Hybrid Automatic Repeat Request (HARQ) mobile communication system	370/469
34	US 20040179583 A1	20040916	11	Method and apparatus for decoder input scaling based on interference estimation in CDMA	375/147
35	US 20040174811 A1	20040909	22	OFDM automatic frequency control device and method thereof	370/206
36	US 20040170228 A1	20040902	19	Frequency domain partial response signaling with high spectral efficiency and low peak to average power ratio	375/260
37	US 20040161041 A1	20040819	15	Method and system for modifying modulation of power line communications signals for maximizing data throughput rate	375/257
38	US 20040141564 A1	20040722	9	Decoding of low-complexity signals transmitted by a constellation modulation	375/261

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29	455/226.3; 455/69	Goldstein, Yuri et al.
30	370/342; 375/346; 455/67.13	Song, lick Ho et al.
31	370/331; 455/439	Lee, Jun-Sung et al.
32		Ojard, Eric
33	370/498	Kim, Min-Goo et al.
34	375/345	Jeong, Gibong
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	Document ID	Issue Date	Pages	Title	Current OR
39	US 20040131007 A1	20040708	32	Pilot transmission schemes for wireless multi-carrier communication systems	370/208
40	US 20040127164 A1	20040701	22	Reconfigurable chip level equalizer architecture	455/67.11
41	US 20040091058 A1	20040513	15	QAM receiver and method for constellations having at least sixteen symbols	375/261
42	US 20040086027 A1	20040506	42	Orthogonal superposition coding for direct-sequence communications	375/146
43	US 20040071229 A1	20040415	8	Demodulator circuit	375/340
44	US 20040071158 A1	20040415	8	Modulation multiplexing	370/464
45	US 20040062302 A1	20040401	34	Adaptive equalizing apparatus and program therefor	375/232
46	US 20040029621 A1	20040212	24	Method for selective power management for a hand held host	455/574
47	US 20040001564 A1	20040101	15	Reduced complexity receiver for space-time-bit-interleaved coded modulation	375/341
48	US 20030235149 A1	20031225	12	Space-time bit-interleaved coded modulation for wideband transmission	370/206
49	US 20030235147 A1	20031225	28	Diversity transmission modes for MIMO OFDM communication systems	370/204
50	US 20030231714 A1	20031218	38	System and method for orthogonally multiplexed signal transmission and reception	375/259
51	US 20030189972 A1	20031009	18	Method and device for interference cancellation in a CDMA wireless communication system	375/148
52	US 20030185320 A1	20031002	21	Diversity circuit demodulating OFDM-method signals and diversity receiving apparatus having said diversity circuit therein	375/347
53	US 20030174767 A1	20030918	46	MIMO receiver and method of reception therefor	375/229
54	US 20030156659 A1	20030821	33	Mapping method of code word with QAM modulation	375/298
55	US 20030142764 A1	20030731	84	Single chip VLSI implementation of a digital receiver employing orthogonal frequency division multiplexing	375/341

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40	455/67.14	Mondragon-Torres, Antonio F. et al.
41		Tosato, Filippo et al.
42	370/208; 375/147	Shattil, Steve J.
43		Collins, Matthew James
44		Wei, Yongbin
45	375/350	Fujii, Hiromasa et al.
46	455/572	Karaoguz, Jeyhan et al.
47		Chan, Albert et al.
48		Chan, Albert et al.
49	370/342	Walton, Jay R. et al.
50		Kjeldsen, Erik H. et al.
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54	375/261	Hanaoka, Seishi et al.
55	375/354; 714/795	Keevill, Peter A et al.

	Document ID	Issue Date	Pages	Title	Current OR
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57	US 20030118133 A1	20030626	25	Viterbi decoding with channel and location information	375/344
58	US 20030053493 A1	20030320	108	Allocation of bit streams for communication over-multi-carrier frequency-division multiplexing (FDM)	370/538
59	US 20020186797 A1	20021212	21	Decoders for many-carrier signals, in particular in DVB-T receivers	375/341
60	US 20020186784 A1	20021212	54	Method and apparatus for rearranging codeword sequence in a communication system	375/298
61	US 20020154711 A1	20021024	10	Method and apparatus for a demodulator circuit	375/324
62	US 20020136332 A1	20020926	6	Turbo decoder system comprising parallel decoders	375/341
63	US 20020136318 A1	20020926	23	Transmission system for transmitting a multilevel signal	375/261
64	US 20020136317 A1	20020926	12	Block coding for multilevel data communication	375/261
65	US 20020126768 A1	20020912	32	CONTROL CHANNELS FOR TELECOMMUNICATIONS TRANSMISSION SYSTEMS	375/298
66	US 20020114398 A1	20020822	15	Constellation-multiplexed transmitter and receiver	375/253
67	US 20020097743 A1	20020725	151	Integrated digital loop carrier system with virtual tributary mapper circuit	370/463
68	US 20020089923 A1	20020711	35	Transmitter, receiver and transmitting method in multi-carrier transmission system	370/208
69	US 20020067777 A1	20020606	10	Method and apparatus for processing modulation symbols for soft input decoders	375/324
70	US 20020064218 A1	20020530	77	Data link for multi protocol facility distributed communication hub	375/219
71	US 20020051498 A1	20020502	24	Decoding system and method for digital communications	375/262
72	US 20010040869 A1	20011115	14	Transmission of OFDM signals	370/203

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58		Graham Mobley, Joseph et al.
59	714/795	Robinson, Adrian Paul
60	375/308	Kim, Min-Goo et al.
61	348/726; 375/341	Collins, Matthew James et al.
62		Dielissen, Johannus Theodorus Matheus Hubertus et al.
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65		ISAKSSON, MIKAEL et al.
66	375/261	Lin, Thuji Simon et al.
67	370/357; 370/386	Baydar, Ertugrul et al.
68	370/344	Yoshida, Makoto et al.
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	Document ID	Issue Date	Pages	Title	Current OR
73	US 20010033600 A1	20011025	18	Sectorized smart antenna system and method	375/130
74	US 6865232 B1	20050308	40	Multi-carrier transmission systems	375/260
75	US 6842480 B1	20050111	22	Programmable matched filter bank	375/152
76	US 6822999 B1	20041123	33	High-speed cell searching apparatus and method for communication system	375/145
77	US 6798846 B2	20040928	16	ARQ retransmission with reordering scheme employing multiple redudancy versions and receiver/transmitter therefor	375/298
78	US 6757553 B1	20040629	15	Base station beam sweeping method and apparatus using multiple rotating antennas	455/562.1
79	US 6687315 B2	20040203	83	Single chip VLSI implementation of a digital receiver employing orthogonal frequency division multiplexing	375/341
80	US 6661282 B2	20031209	12	Demodulation apparatus and method in a communication system employing 16-ary QAM	329/304
81	US 6611513 B1	20030826	8	CDMA system with iterative demapping of a received signal	370/342
82	US 6567465 B2	20030520	18	DSL modem utilizing low density parity check codes	375/222
83	US 6553063 B1	20030422	14	Constellation-multiplexed transmitter and receiver	375/223
84	US 6538986 B2	20030325	31	Data transmission system and method using nQAM constellation with a control channel superimposed on a user data channel	370/207

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73	342/359	Yang, Gang et al.
74		Isaksson; Mikael et al.
75	375/143; 375/343	Yang; Gang et al.
76	375/141	Lee; Byeong Gi et al.
77		Golitschek Edler Von Elbwart; Alexander et al.
78	343/766; 455/133; 455/277.1	English; Sean S.
79	375/326	Keevill; Peter A et al.
80	375/261; 375/262	Ha; Sang-Hyuck et al.
81	370/320; 370/335; 370/441; 370/535; 370/537	ten Brink; Stephen
82	375/259; 714/758	Goldstein; Yuri et al.
83	375/225; 375/261; 375/285; 375/298; 375/340	Lin; Thuji Simon et al.
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	Document ID	Issue Date	Pages	Title	Current OR
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86	US 6483553 B1	20021119	11	TV receiver for digital/analog combined use	348/731
87	US 6473442 B1	20021029	17	Communications system and method for matching and balancing the bit rates of transport channels to the bit rate of a physical channel	370/537
88	US 6466629 B1	20021015	35	Multi-carrier transmission systems	375/316
89	US 6456649 B1	20020924	31	Multi-carrier transmission systems	375/222
90	US 6438174 B1	20020820	56	Multi-carrier transmission systems	375/261
91	US 6366554 B1	20020402	33	Multi-carrier transmission systems	370/206
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86	348/554; 348/555; 348/558; 348/725; 348/726; 375/327; 375/345; 455/234.1; 455/245.1	Jung; Gwon Sool
87	370/320; 370/329	Lundsjo ; Johan et al.
88	341/155; 341/156; 341/158; 375/243; 375/245	Isaksson; Mikael et al.
89	370/210; 375/260	Isaksson; Mikael et al.
90	375/264; 375/298	Isaksson; Mikael et al.
91	370/480; 370/484; 370/515; 370/536; 375/260; 375/298; 375/364	Isaksson; Mikael et al.
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	Document ID	Issue Date	Pages	Title	Current OR
93	US 6359938 B1	20020319	83	Single chip VLSI implementation of a digital receiver employing orthogonal frequency division multiplexing	375/316
94	US 6359926 B1	20020319	32	Multi-carrier transmission systems	375/219
95	US 6333940 B1	20011225	140	Integrated digital loop carrier system with virtual tributary mapper circuit	370/506
96	US 6320903 B1	20011120	34	Multi-carrier transmission systems	375/232
97	US 6233271 B1	20010515	28	Method and apparatus for decoding trellis coded direct sequence spread spectrum communication signals	375/142
98	US 6215813 B1	20010410	28	Method and apparatus for encoding trellis coded direct sequence spread spectrum communication signals	375/146
99	US 6188717 B1	20010213	19	Method of simultaneous radio transmission of digital data between a plurality of subscriber stations and a base station	375/148
100	US 6181714 B1	20010130	31	Multi-carrier transmission systems	370/491
101	US 6148024 A	20001114	8	FFT-based multitone DPSK modem	375/222
102	US 6125136 A	20000926	25	Method and apparatus for demodulating trellis coded direct sequence spread spectrum communication signals	375/147
103	US 6115435 A	20000905	13	Soft decision method and receiver	375/341
104	US 6072769 A	20000606	8	Method for multitone division multiple access communications	370/204
105	US 6058146 A	20000502	22	Receiver employing coded modulation	375/341
106	US 6049550 A	20000411	122	Integrated digital loop carrier system with virtual tributary mapper circuit	370/466

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94	370/480; 375/260; 375/356; 375/362	Isaksson; Mikael et al.
95	370/466; 370/509	Baydar; Ertugrul et al.
96	375/260; 375/350	Isaksson; Mikael et al.
97	375/150; 375/341	Jones; William W. et al.
98	375/141; 375/147	Jones; William W. et al.
99		Kaiser; Stefan et al.
100	370/206; 370/207	Isaksson; Mikael et al.
101	370/210; 375/283	Ho; Jin-Meng et al.
102	375/332	Jones; William W. et al.
103	375/262; 714/794; 714/795	Harada; Keisuke et al.
104	370/210; 370/436; 370/478; 370/525	Ho; Jin-Meng
105	375/316	Yoshida; Makoto
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107	US 6049543 A	20000411	48	Transcoder for use in an ATM-based communications system	370/335
108	US 6034950 A	20000307	49	System packet-based centralized base station controller	370/310.2
109	US 6018521 A	20000125	48	Network interface subsystem for use in an ATM communications system	370/342
110	US 5970397 A	19991019	11	Method for the frequency correction of multicarrier signals and related apparatus	455/139
111	US 5966412 A	19991012	11	Apparatus and method for processing a Quadrature Amplitude Modulated (QAM) signal	375/341
112	US 5953377 A	19990914	22	Coded modulation using repetition and tree codes	375/295
113	US 5862190 A	19990119	12	Method and apparatus for decoding an encoded signal	375/341
114	US 5784377 A	19980721	131	Integrated digital loop carrier system with virtual tributary mapper circuit	370/463
115	US 5757863 A	19980526	9	Apparatus for decoding a signal encoded by using trellis coded modulation ·	375/341
116	US 5717471 A	19980210	11	Apparatus for demodulating and decoding satellite, terrestrial and cable transmitted digital television data	348/726
117	US 5572515 A	19961105	16	Sonet/SDH signal recognition and selection	370/252

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107	370/328; 370/338; 370/395.1; 370/466	Sauer; John M. et al.
108	370/466	Sauer; John M. et al.
109	370/236.2; 370/252; 370/338; 370/395.65	Timbs; Jeffrey L. et al.
110	455/257	Klank; Otto et al.
111	375/261	Ramaswamy; Kumar
112	375/298	Yoshida; Makoto
113	714/794; 714/796	Schaffner; Terry Michael
114	370/357; 370/386; 379/90.01	Baydar; Ertugrul et al.
115	714/795	Lim; Yong-Hee
116	348/555; 348/558; 375/260; 375/265; 375/340	Stewart; John Sidney
117	370/232; 370/254; 370/465; 370/907	Williamson; Alistair et al.

	Document ID	Issue Date	Pages	Title	Current OR
118	US 5497401 A	19960305	15	Branch metric computer for a Viterbi decoder of a punctured and pragmatic trellis code convolutional decoder suitable for use in a multi-channel receiver of satellite, terrestrial and cable transmitted FEC compressed-digital television data	375/341
119	US 4493082 A	19850108	17	Soft decision convolutional code transmission systems	714/792

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118	375/262; 714/759; 714/795; 714/796	Ramaswamy; Kumar et al.
119	375/261; 714/795	Cumberton; John et al.